**Exercise at home: Sets, List, dictionaries,For loops**

In this lesson all kinds of controls in python will be reviewed.

1. Conditional statements: if else statements
2. Lists,Strings
3. Various kinds of Loops: definite and indefinite loops, using files in loops, Nested Loops

**Use case Description:**

use case is related to renting a car. The goal of this use case is to calculate the money that one should pay when renting a car. Surely this money will be affected by the kind of car, distance, kind of petrol, number of days…

So, here user answers a couple of questions then based on those answers a message will be printed in the terminal about the money that person has been charged.

**Assignment Overview:**

By doing the assignment student will learn which loop is fine for doing this project. Also, they will learn about using if condition statement, for loop or while.

**Task1:**

Read a file which includes at least two paragraphs. Calculate the word frequency for each word in the file. the steps to do so:

1. Split the words in the file
2. Use a loop to iterate over the words.
3. Add the first word to the file, put the value 1
4. Add the second word to the file, put the value 1.
5. If you faced with a word that you have already added to the file, just update the value
6. Finally, you will have a file which includes all the words with their counts, ex:

{“Is”: 5, “politics”:3, “country”:1, …}

**Task 2:**

Write a Python program to check if a string contains all letters of the alphabet

**Task 3:**

Write a Python program to find those numbers which are divisible by 5 and multiple of 2, between 700 and 1700

**Submission guidelines:**

* Submit your code at Github and properly document it. Submit your screenshots as well. The screenshot should have both the code and the output
* Each part of code should have the comment.
* Use following link to submit your assignment.
* Submit your code through this <https://docs.google.com/forms/d/e/1FAIpQLSeR4ZKZZ4KF2iQJviijuK6h-6o1WzYsTzPetJydMgJ1QG2B-Q/viewform>